

FOREST STATISTICS FOR CLACKAMAS COUNTY, OREGON

Resulting from the Inventory Phase of the Forest Survey
of the United States, Conducted for the States of Washington and Oregon
by the Pacific Northwest Forest Experiment Station,
Forest Service, U. S. Dept. of Agriculture
Data as of March 1, 1933

Thornton T. Munger,
Station Director

H. J. Andrews, In Charge
of Forest Survey

Field and office work outside national forest boundary
largely by P. A. Briegleb and W. J. Wakeman

Field and office work inside national forest boundary
largely by O. E. Tharp and Ralph Crawford

Portland, Oregon

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FOREST STATISTICS FOR CLACKAMAS COUNTY, OREGON
FROM INVENTORY PHASE OF FOREST SURVEY

TABLE 1. VOLUME OF TIMBER BY SPECIES FOR EACH OWNERSHIP CLASS
IN THOUSANDS OF BOARD FEET, LOG SCALE, SCRIBNER RULE
DATA CORRECTED TO MARCH 1, 1933

SYMBOL	SPECIES	PUBLIC OWNERSHIPS							
		PRIVATE OWNERSHIP	COUNTY	MUNICIPAL	LAND GRANTS	FEDERAL,	NATIONAL	NATIONAL	TOTAL
						OTHER THAN	FOREST,	FOREST,	
						NAT. FOR.,	AVAILABLE	RESERVED	
BOL						INDIAN AND REVESTED	FOR	FROM	COUNTY
						0 & C ETC.	LAND GRANTS	CUTTING	CUTTING
DA	OLD GROWTH DOUGLAS FIR, TREES OVER 40" DBH	1,662,874	8,054	32,100	190,985	13,504	852,735	830,747	3,590,999
DB	OLD GROWTH DOUGLAS FIR, TREES 20-40" DBH	1,009,939	6,373	11,280	96,038	4,867	6,023,029	186,581	7,338,107
DC	SECOND GROWTH DOUGLAS FIR, TREES 20-40" DBH	894,673	3,020	2,770	88,880	9,919	359,717	5,334	1,364,313
DD	SECOND GROWTH DOUGLAS FIR, TREES 16-20" DBH	445,592	10,326	9,814	86,661	9,314	-	3,300	565,007
ES	ENGELMANN SPRUCE, TREES OVER 16" DBH	-	-	-	-	-	15,659	110	15,769
HA	LARGE WESTERN HEMLOCK, TREES OVER 20" DBH	461,851	780	14,130	24,232	2,762	1,776,362	502,083	2,782,200
HB	SMALL WESTERN HEMLOCK, TREES 16-20" DBH	114,991	195	3,530	6,056	688	313,476	88,603	527,539
MH	MOUNTAIN HEMLOCK, TREES OVER 16" DBH	-	-	-	-	-	374,463	71,858	446,321
C	WESTERN RED CEDAR, LIVE, TREES OVER 16" DBH	49,554	-	190	7,090	26	141,314	133,338	331,512
YC	ALASKA CEDAR, LIVE, TREES OVER 16" DBH	-	-	-	-	-	5,103	399	5,502
KC	DEAD CEDAR, TREES OVER 16" DBH	68	-	-	-	-	614	1,339	2,021
W	WESTERN WHITE (& WHITEBARK) PINE, TREES OVER 16" DBH	8,195	-	-	50	-	147,787	10,553	166,585
LP	LODGEPOLE PINE, TREES OVER 16" DBH	-	-	-	-	-	2,335	220	2,555
WF	WHITE FIR AND LOWLAND WHITE FIR, TREES OVER 16" DBH	2,376	-	-	165	505	34,159	-	37,205
NF	NOBLE FIR, TREES OVER 16" DBH	235,757	275	-	5,000	38	737,652	167,181	1,145,903
A	SILVER FIR, TREES OVER 16" DBH	6,254	-	-	-	250	346,971	117,275	470,750
AF	ALPINE FIR, TREES OVER 16" DBH	-	-	-	-	-	28,244	496	28,740
WL	WESTERN LARCH, TREES OVER 16" DBH	-	-	-	-	-	27,957	-	27,957
RA	RED ALDER, TREES OVER 12" DBH	6,186	21	306	356	2	86	127	7,084
OO	OREGON WHITE OAK, TREES OVER 12" DBH	466	-	-	-	-	-	-	466
BC	BLACK COTTONWOOD, TREES OVER 12" DBH	12,951	-	-	-	-	-	-	12,951
OM	BIGLEAF MAPLE, TREES OVER 12" DBH	3,191	16	44	353	15	102	-	3,721
ASH	OREGON ASH, TREES OVER 12" DBH	1,986	-	3	26	1	-	-	2,016
	TOTAL	4,916,904	29,060	74,167	505,892	41,891	11,187,765	2,119,544	18,875,223

NOTE - IN ADDITION TO THE SPECIES FOR WHICH SAWTIMBER VOLUME ESTIMATES WERE OBTAINED, SUGAR PINE AND PONDEROSA PINE ARE KNOWN TO OCCUR IN INCONSEQUENTIAL QUANTITIES IN THIS COUNTY.

FOREST STATISTICS FOR CLACKAMAS COUNTY, OREGON
FROM INVENTORY PHASE OF FOREST SURVEY

TABLE 2. AREA IN ACRES OF ALL FOREST COVER TYPES, BY OWNERSHIP CLASSES
DATA CORRECTED TO MARCH 1, 1933

SUR- VEY TYPE NO.	DEFINITION OF TYPES	PUBLIC OWNERSHIPS								TOTAL FOR COUNTY
		PRIVATE OWNERSHIP	COUNTY	MUNICIPAL	REVESTED LAND GRANTS 0 & C ETC.	FEDERAL, OTHER THAN NAT. FOR., INDIAN AND REVESTED LAND GRANTS	NATIONAL FOREST, AVAILABLE FOR CUTTING	NATIONAL FOREST, RESERVED FROM CUTTING		
2	NONFOREST LAND OTHER THAN AGRICULTURAL	13,450	-	-	-	-	2,897	6,413	22,760	
3	AGRICULTURAL: CULTIVATED, AND CLEARED PASTURES ON OPERATED FARMS	227,310	-	35	120	-	-	-	227,465	
4	OAK-MADRONE: A FOREST CONTAINING OVER 60% OAKS OR MADRONE	2,760	-	-	-	-	-	-	2,760	
	DOUGLAS FIR: A FOREST CONTAINING OVER 60% DOUGLAS FIR									
6	DOUGLAS FIR, LARGE OLD GROWTH, OVER 40" DBH	37,245	290	695	6,065	410	16,411	13,786	74,902	
7	DOUGLAS FIR, SMALL OLD GROWTH, 20-40" DBH	18,285	205	290	1,900	15	155,514	1,870	178,079	
8	DOUGLAS FIR, LARGE SECOND GROWTH, 20-40" DBH	46,580	220	40	5,165	880	9,002	363	62,250	
9	DOUGLAS FIR, SMALL SECOND GROWTH, 6-20" DBH	112,005	3,070	1,065	24,805	9,965	27,345	14,100	192,355	
10	DOUGLAS FIR, SEEDLINGS AND SAPLINGS, 0-6" DBH	46,120	1,325	-	4,040	590	48,586	11,971	112,632	
	WESTERN HEMLOCK: A FOREST CONTAINING OVER 50% WESTERN HEMLOCK:									
14	WESTERN HEMLOCK, LARGE, OVER 20" DBH	3,550	-	220	120	40	55,892	8,587	68,409	
15	WESTERN HEMLOCK, SMALL, 6-20" DBH	145	-	20	30	-	7,403	1,691	9,289	
16	WESTERN HEMLOCK, SEEDLINGS AND SAPLINGS, 0-6" DBH	500	-	-	25	-	-	128	653	
17	WESTERN RED CEDAR, LARGE: A FOREST CONTAINING OVER 40% WESTERN RED CEDAR, AND OVER 24" DBH	835	-	-	-	-	145	1,469	2,449	
19	CEDAR, SMALL: A FOREST CONTAINING 40% OR MORE OF WESTERN RED CEDAR, AND UNDER 24" DBH	2,675	-	-	-	-	-	-	2,675	
21	PONDEROSA PINE, SMALL: A FOREST CONTAINING OVER 50% PONDEROSA PINE, AND 12-22" DBH	50	-	-	-	-	-	-	50	
	FIR-MOUNTAIN HEMLOCK: A FOREST CONTAINING OVER 50% OF EITHER NOBLE, SILVER, OR SHASTA FIR AND/OR MOUNTAIN HEMLOCK									
23	FIR-MOUNTAIN HEMLOCK, LARGE, OVER 16" DBH	5,780	5	-	10	-	52,480	14,365	72,640	
24	FIR-MOUNTAIN HEMLOCK, SMALL, UNDER 16" DBH	2,640	170	100	2,865	365	26,506	13,237	45,883	
26	LODGEPOLE PINE, SMALL: A FOREST CONTAINING OVER 50% LODGEPOLE PINE, AND UNDER 12" DBH	110	-	-	-	-	14,546	3,563	18,219	
	WHITE FIR-LARCH-DOUGLAS FIR: A MIXED FOREST OF WESTERN LARCH, WHITE FIR, DOUGLAS FIR, PONDEROSA PINE, OR LODGEPOLE PINE									
27	WHITE FIR-LARCH-DOUGLAS FIR, LARGE, OVER 20" DBH	-	-	-	-	-	796	-	796	
28	WHITE FIR-LARCH-DOUGLAS FIR, SMALL, UNDER 20" DBH	-	-	-	-	-	575	-	575	
	WHITE FIR: A FOREST CONTAINING OVER 50% WHITE FIR									
29	WHITE FIR, LARGE, OVER 20" DBH	130	-	-	-	-	-	-	130	
30	WHITE FIR, SMALL, UNDER 20" DBH	240	-	-	-	-	-	-	240	
31	HARDWOODS: ALDER, MAPLE, ASH, AND/OR COTTONWOOD PREDOMINATING	11,315	10	220	155	-	-	-	11,700	
33	SUBALPINE: A FOREST AT THE UPPER LIMITS OF TREE GROWTH, USUALLY UNMERCHANTABLE	-	-	-	-	-	2,942	3,383	6,325	
35	OLD CUTOVERS, NOT RESTOCKED: CLEAR CUT PRIOR TO 1920	17,860	-	140	105	-	-	-	18,105	
36	RECENT CUTOVERS: CLEAR CUT SINCE JANUARY 1920	17,815	-	160	3,155	-	773	46	21,949	
37	DEFORESTED BURNS: ANY NONRESTOCKED BURN, NOT CUT OVER	20,365	400	-	3,645	315	20,747	2,396	47,868	
38	NONCOMMERCIAL ROCKY AREAS	-	-	-	30	-	1,056	169	1,255	
	TOTAL	587,765	5,695	2,985	52,235	12,580	443,616	97,537	1,202,413	

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TABLE 3. AREA IN ACRES OF GENERALIZED FOREST TYPES, BY OWNERSHIP CLASSES
DATA CORRECTED TO MARCH 1, 1933

DEFINITION OF TYPES	P U B L I C O W N E R S H I P S							
	PRIVATE OWNERSHIP	COUNTY	MUNICIPAL	REVESTED LAND GRANTS	FEDERAL, OTHER THAN NAT. FOR., INDIAN AND REVESTED LAND GRANTS	NATIONAL FOREST, AVAILABLE FOR	NATIONAL FOREST, RESERVED FROM	TOTAL FOR COUNTY
NONFOREST LAND TYPES								
SURVEY TYPES 2 AND 3	240,760	-	35	120	-	2,897	6,413	250,225
HARDWOODS: ALDER, MAPLE, ASH, AND/OR COTTONWOOD PREDOMINATING								
SURVEY TYPE 31	11,315	10	220	155	-	-	-	11,700
CONIFEROUS TIMBER TYPES OVER ABOUT 20" DBH								
SURVEY TYPES 6, 7, 8, 14, 17, 23, 27, AND 29	112,405	720	1,245	13,260	1,345	290,240	40,440	459,655
CONIFEROUS TIMBER TYPES FROM 6-20" OR 12-22" DBH ON CUTOVER AREAS:	17,695	-	5	110	-	-	-	17,810
SURVEY TYPES 9, 15, AND 21								
ON OLD BURNS	94,505	3,070	1,080	24,725	9,965	34,748	15,791	183,884
TOTAL	112,200	3,070	1,085	24,835	9,965	34,748	15,791	201,694
CONIFEROUS TIMBER TYPES FROM 0"-6" DBH								
SURVEY TYPES 10 AND 16								
ON CUTOVER AREAS:	30,305	85	-	380	-	-	-	30,770
ON OLD BURNS	16,315	1,240	-	3,685	590	48,586	12,099	82,515
TOTAL	46,620	1,325	-	4,065	590	48,586	12,099	113,285
CONIFEROUS TIMBER TYPES FROM 0-16, 20 OR 24" DBH								
SURVEY TYPES 19, 24, 28, AND 30								
ON CUTOVER AREAS:	2,210	-	-	-	-	-	-	2,210
ON OLD BURNS	3,345	170	100	2,865	365	27,081	13,237	47,163
TOTAL	5,555	170	100	2,865	365	27,081	13,237	49,373
NONCOMMERCIAL TYPES								
SURVEY TYPES 4, 26, 33, AND 38	2,870	-	-	30	-	18,544	7,115	28,559
RECENT CUTOVERS: CLEAR CUT SINCE JANUARY 1920								
SURVEY TYPE 36	17,815	-	160	3,155	-	773	46	21,949
OLD CUTOVERS NONRESTOCKED, AND DEFORESTED BURNS								
SURVEY TYPES 35 AND 37	38,225	400	140	3,750	315	20,747	2,396	65,973
TOTAL	587,765	5,695	2,985	52,235	12,580	443,616	97,537	1,202,413

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TABLE 4. AREA OF CERTAIN IMMATURE CONIFEROUS FOREST TYPES SUBDIVIDED INTO AGE AND STOCKING CLASSES
DATA CORRECTED TO MARCH 1, 1933

		TYPE NUMBER AND NAME											
		10	16	9	15	19	24	28	30	21			
AGE	DEGREE OF STOCKING	DOUGLAS FIR SEEDLINGS & SAPLINGS 0"-6" DBH	WESTERN HEMLOCK SEEDLINGS & SAPLINGS 0"-6" DBH	DOUGLAS FIR SMALL SECOND GROWTH 6"-20" DBH	WESTERN HEMLOCK SMALL SECOND GROWTH 6"-20" DBH	CEDAR SMALL 0"-24" DBH	FIR-MT. HEMLOCK SMALL 0"-16" DBH	WHITE FIR-LARCH SMALL 0"-20" DBH	DOUGLAS FIR SMALL 0"-20" DBH	WHITE FIR SMALL 0"-20" DBH	PONDEROSA PINE SMALL 12"-22" DBH		TOTAL
		ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES
10	GOOD	14,043	153	-	-	-	6,572	-	-	-	-	-	20,768
	MEDIUM	31,876	-	-	-	605	2,299	341	50	-	-	-	35,171
YEAR	POOR	21,740	500	-	-	235	1,510	-	105	-	-	-	24,090
	TOTAL	67,659	653	-	-	840	10,381	341	155	-	-	-	80,029
20	GOOD	33,311	-	4,410	122	25	12,791	234	-	-	-	-	50,893
	MEDIUM	3,622	-	9,403	80	325	10,254	-	-	-	-	-	23,684
YEAR	POOR	637	-	3,680	45	275	420	-	85	-	-	-	5,142
	TOTAL	37,570	-	17,493	247	625	23,465	234	85	-	-	-	79,719
30	GOOD	7,403	-	21,046	1,305	165	6,038	-	-	-	-	-	35,957
	MEDIUM	-	-	18,906	50	120	3,269	-	-	-	-	-	22,345
YEAR	POOR	-	-	3,530	-	35	-	-	-	-	-	-	3,565
	TOTAL	7,403	-	43,482	1,355	320	9,307	-	-	-	-	-	61,867
40	GOOD	-	-	11,013	-	310	1,725	-	-	-	-	-	13,048
	MEDIUM	-	-	19,910	-	215	-	-	-	-	-	-	20,125
YEAR	POOR	-	-	4,780	-	-	-	-	-	-	-	-	4,780
	TOTAL	-	-	35,703	-	525	1,725	-	-	-	-	-	37,953
50	GOOD	-	-	28,871	611	-	155	-	-	-	-	-	29,637
	MEDIUM	-	-	19,770	730	-	715	-	-	-	-	-	21,215
YEAR	POOR	-	-	3,325	-	295	-	-	-	-	-	-	3,620
	TOTAL	-	-	51,966	1,341	295	870	-	-	-	-	-	54,472
60	GOOD	-	-	18,864	19	-	135	-	-	-	-	-	19,018
	MEDIUM	-	-	18,382	1,615	-	-	-	-	-	-	-	19,997
YEAR	POOR	-	-	2,310	-	35	-	-	-	-	-	-	2,345
	TOTAL	-	-	39,556	1,634	35	135	-	-	-	-	-	41,360
70	GOOD	-	-	1,170	-	-	-	-	-	-	-	-	1,170
	MEDIUM	-	-	1,985	-	35	-	-	-	-	-	-	2,020
YEAR	POOR	-	-	310	-	-	-	-	-	-	-	-	310
	TOTAL	-	-	3,465	-	35	-	-	-	-	-	-	3,500
80	GOOD	-	-	-	-	-	-	-	-	-	-	-	-
	MEDIUM	-	-	335	-	-	-	-	-	-	-	-	335
YEAR	POOR	-	-	285	-	-	-	-	-	-	-	-	285
	TOTAL	-	-	620	-	-	-	-	-	-	-	-	620
90	GOOD	-	-	-	-	-	-	-	-	-	-	-	-
	MEDIUM	-	-	70	-	-	-	-	-	-	-	-	70
YEAR	POOR	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	-	-	70	-	-	-	-	-	-	-	-	70
100	GOOD	-	-	-	2,845	-	-	-	-	-	-	-	2,845
YEAR	MEDIUM	-	-	-	1,867	-	-	-	-	-	-	-	1,867
AND	POOR	-	-	-	-	-	-	-	-	-	50	-	50
OVER	TOTAL	-	-	-	4,712	-	-	-	-	-	50	-	4,762
	TOTAL	112,632	653	192,355	9,289	2,675	45,883	575	240	-	50	-	364,352

NOTE - IN ADDITION TO THE IMMATURE TYPES RECOGNIZED ABOVE THERE ARE OTHER TYPES IN WHICH NET GROWTH IS TAKING PLACE, BUT WHICH WERE NOT SUBDIVIDED INTO AGE AND STOCKING CLASSES.

FOREST STATISTICS FOR CLACKAMAS COUNTY, OREGON
FROM INVENTORY PHASE OF FOREST SURVEY

TABLE 5. AREA OF FOREST LAND BY SITE QUALITY CLASSES
DATA CORRECTED TO MARCH 1, 1933

SITE CLASSIFICATION		:	:	PERCENT	:	:
		:	:	OF COM-	PERCENT	PERCENT
		:	:	MERCIAL	OF	OF
TYPE OF LAND	SITE	:	AREA IN ACRES	CONIFER-	TOTAL	TOTAL
	QUALITY	:		OUS FOR-	FOREST	AREA OF
	CLASS	:		EST LAND	LAND	COUNTY
CONIFEROUS FOREST LAND EXCLUS-	I	:	-	:	:	:
IVE OF LODGEPOLE TYPE, SUB-	II	:	125,846	:	13.5	13.2
ALPINE TYPE AND NONCOMMERCIAL	III	:	325,559	:	35.7	34.2
ROCKY AREAS	IV	:	366,595	:	40.2	38.5
	V	:	93,929	:	10.3	9.9
TOTAL CONIFEROUS FOREST SITES (COMMERCIAL):		:	911,929	:	100.0	:
LODGEPOLE PINE LAND		:	18,219	:	:	1.9
NONCOMMERCIAL ROCKY AREAS		:	1,255	:	:	0.1
SUBALPINE FOREST AREAS		:	6,325	:	:	0.7
OAK-MADRONE LAND		:	2,760	:	:	0.3
HARDWOOD LAND		:	11,700	:	:	1.2
TOTAL		:	40,259	:	:	:
TOTAL FOREST LAND IN COUNTY		:	952,188	:	100.0	:
NONFOREST LAND		:	250,225	:	:	20.8
TOTAL AREA OF COUNTY		:	1,202,413	:	:	100.0

NOTE - THE TERM "SITE QUALITY" DENOTES THE FOREST PRODUCTIVE CAPACITY OF AN AREA AND IS A REFLECTION OF THE COMPOSITE EFFECT OF ALL CLIMATIC AND SOIL CONDITIONS.

THE TERM "SITE QUALITY" FOLLOWED BY ROMAN NUMERALS I TO V DESIGNATES THE RELATIVE PRODUCTIVE CAPACITY, "SITE QUALITY I" BEING THE BEST AND "SITE QUALITY V" THE POOREST SITE QUALITY RECOGNIZED. THE HEIGHT OF THE TREES AT A GIVEN AGE IS USED AS A STANDARD OF CLASSIFICATION.

THE SITE QUALITY CLASSIFICATION DESIGNED FOR THE DOUGLAS FIR TYPE HAS BEEN EMPLOYED FOR THAT AND ALL OTHER TYPES IN THIS COUNTY EXCEPT LODGEPOLE PINE, SUBALPINE, OAK-MADRONE, HARDWOODS AND NONCOMMERCIAL ROCKY AREAS, FOR WHICH THERE HAS BEEN NO DIFFERENTIATION INTO SITE QUALITY CLASSES.

FIGURE 1. OWNERSHIP OF FOREST LAND (FROM TABLE 2)

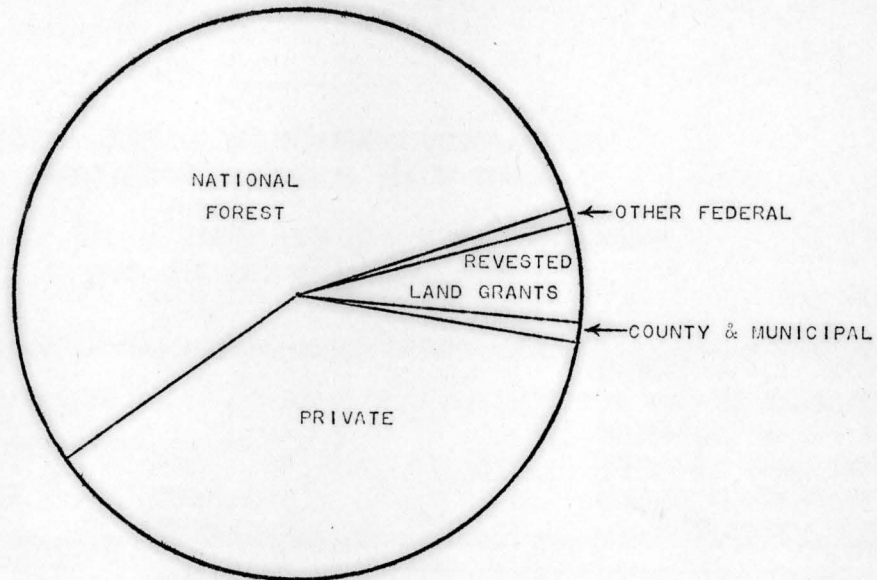


FIGURE 2. DISTRIBUTION OF SAWTIMBER VOLUME BY SPECIES, ALL OWNERSHIPS (FROM TABLE 1)

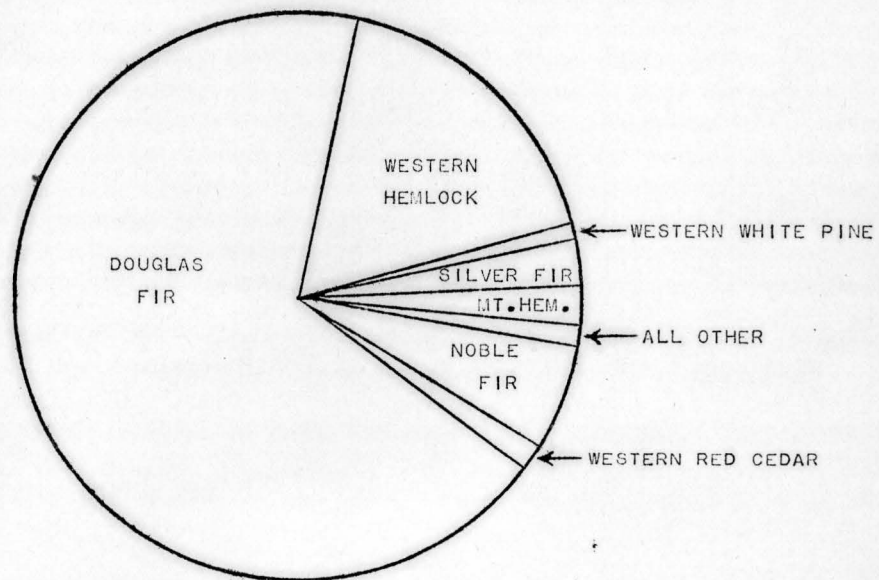


FIG. 3. DISTRIBUTION OF COUNTY AREA BY GENERALIZED TYPES, ALL OWNERSHIPS (FROM TABLES 3 AND 4)

